Map of parcels at 39 kft on 07072318 influenced by convection 0.0 to 2.5 days earlier Squares indicate location of convectively influenced air - influence calculated only within black box Crosses indicate locations where back trajectories from squares intersect convection Cross, square, and trajectory colors indicate elapsed time between convection and 07072318 2.5 2.0 Days Since Convection 1.5 1.0 0.5 NASA/ARC Last Image Used is 0707211545 **PSL** 1443 Trajectories

Map of parcels at 39 kft on 07072318 influenced by convection 2.5 to 5.0 days earlier Squares indicate location of convectively influenced air -- influence calculated only within black box Crosses indicate locations where back trajectories from squares intersect convection Cross, square, and trajectory colors indicate elapsed time between convection and 07072318 5.0 4.5 Days Since Convection 4.0 3.5 3.0 2.5 NASA/ARC ast Image Used is 0707211545 1443 Trajectories

Map of parcels at 39 kft on 07072318 influenced by convection 5.0 to 7.5 days earlier Squares indicate location of convectively influenced air -- influence calculated only within black box Crosses Indicate locations where back trajectories from squares intersect convection Cross, square, and trajectory colors indicate elapsed time between convection and 07072318 7.5 Days Since Convection 6.5 6.0 5.5 5.0 NASA/ARC Last Image Used is 07:07211545 1443 Trajectories

Map of parcels at 39 kft on 07072318 influenced by convection 7.5 to 10.0 days earlier Squares indicate location of convectively influenced air -- influence calculated only within black box Crosses indicate locations where back frajectories from squares intersect convection Cross, square, and trajectory colors indicate elapsed time between convection and 07072318 10.0 Days Since Convection 9.0 8.5 7.5 NASA/ARC **PSL** Last Image Used is 0707211545 1443 Trajectories